

Cluster I/O Module (CLIM) Software Compatibility Reference

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About This Document

This document provides CLIM and NonStop release version update (RVU) software compatibility information.

Supported Release Version Updates (RVUs)

This document supports L15.02 and subsequent L-series RVUs, J06.04 and all subsequent J-series RVUs and H06.16, and all subsequent H-series RVUs. This document also provides information about CLIM-required third-party software.

Intended Audience

This document is written for those responsible for updating CLIM software.

New and Changed Information in This Edition

Version	Date	Changes
631237-020	December 2014	Updated for L15.02 RVU: Added L15.02 RVU to Table 1: CLIM DVD Versions (page 9) and added new table Table 5: DL380p Gen8 CLIM Minimum CLIM DVD Versions (NonStopX) (page 12) . Added L15.02 RVU to “ CLIM Software Compatibility Matrix ” (page 13).
631237-019	November 2014	Added H06.29 RVU to Table 1: CLIM DVD Versions (page 9) , to tables in “ Minimum CLIM DVD Versions for RVUs by CLIM Type ” (page 10), and to “ CLIM Software Compatibility Matrix ” (page 13).
631237-018	September 2014	Added rows for ACQ and ACU to Table 7: CLIM Software Compatibility Matrix J06.04 – J06.15/H06.26 (page 13) .
631237-017	August 2014	Added J06.18 RVU to Table 1: CLIM DVD Versions (page 9) , to tables in “ Minimum CLIM DVD Versions for RVUs by CLIM Type ” (page 10), and to “ CLIM Software Compatibility Matrix ” (page 13).
631237-016	May 2014	Added M8392 disk enclosure.
631237-015	March 2014	Updated J06.17/H06.28 column in “ CLIM Software Compatibility Matrix ” (page 13).
631237-014	February 2014	Changed chapter titles to be generic rather than RVU-specific. Updated note about restore and backup in “ Minimum CLIM DVD Versions for RVUs by CLIM Type ” (page 10). Added J06.17/H06.28 RVU to Table 1: CLIM DVD Versions (page 9) , to tables in “ Minimum CLIM DVD Versions for RVUs by CLIM Type ” (page 10), and to “ CLIM Software Compatibility Matrix ” (page 13).
631237-013	October 2013	Change “G2” to “G2/G5” in footnotes to CLIM Software Compatibility Matrix. Updated “ DL380p Gen8 CLIM Required Minimum SPRs ” (page 17). Added “ Volume Level Encryption ” (page 18).
631237-012	August 2013	Added J06.16/H06.27 RVU to Table 1: CLIM DVD Versions (page 9) , to tables in “ Minimum CLIM DVD Versions for RVUs by CLIM Type ” (page 10), and to “ CLIM Software Compatibility Matrix ” (page 13).

Version	Date	Changes
		<p>Added information in footnotes about backwards compatibility to “Third-Party Software Requirements” (page 19).</p> <p>Corrected error in Table 4: DL380p Gen8 CLIM Minimum CLIM DVD Versions (BladeSystem) (page 11)</p>
631237-011	February 2013	<p>Added J06.15/H06.26 RVU to tables in “Minimum CLIM DVD Versions for RVUs by CLIM Type” (page 10) and updated tables with other changes.</p> <p>Added “DL380p Gen8 CLIM Required Minimum SPRs” (page 17) to “Other CLIM Software Compatibility” (page 17)</p> <p>Added J06.15/H06.26 column to “CLIM Software Compatibility Matrix” (page 13).</p>
631237-010	August 2012	<p>Added new chapter “Recommended (and Shipped) CLIM DVD Versions” (page 9).</p> <p>Added J06.14/H06.25 RVU to tables in “Minimum CLIM DVD Versions for RVUs by CLIM Type” (page 10) and updated tables with other changes.</p> <p>Added J06.14/H06.25 column to “CLIM Software Compatibility Matrix” (page 13).</p>
631237-009	February 2012	<p>Added information about the Down System CLIM Firmware Update Tool to “CLIM Software Compatibility Overview” (page 8)</p> <p>Added J06.13/H06.24 RVU to tables in “Minimum CLIM DVD Versions for RVUs by CLIM Type” (page 10).</p> <p>Added J06.13/H06.24 column to “CLIM Software Compatibility Matrix” (page 13) and removed ABJ line.</p>
631237-008	September 2011	<p>Added J06.12/H06.23 column to “CLIM Software Compatibility Matrix” (page 13).</p> <p>Corrected New and Changed information.</p>
631237-007	August 2011	<p>Added J06.12/H06.23 RVU to tables in “Minimum CLIM DVD Versions for RVUs by CLIM Type” (page 10).</p> <p>Updated minimum SPR level for G6 CLIMs in “Other CLIM Software Compatibility” (page 17).</p> <p>Added chapter “Third-Party Software Requirements” (page 19) and information about IB CLIM to it.</p>
631237-006	February 2011	Updated the J06.11 and H06.22 column in “CLIM Software Compatibility Matrix” (page 13).
631237-005	February 2011	Updated for J06.11 and H06.22
631237-004	25 Oct 2010	Updated with a new SPR in “CLIM Software Compatibility Matrix” (page 13).
631237-003	10 Sep 2010	<p>The T# in the column header in the table in “CLIM Software Compatibility Matrix” (page 13) has been corrected. In addition, the table in that chapter contains these clarifications:</p> <ul style="list-style-type: none"> • A note explaining the TCFs has been added. • The rows of the table have been sorted in the order of the TCFs released for each SPR. • A “T” is introduced to distinguish the RVU for which a TCF is released.
631237-002	30 August 2010	This edition includes a change to the OSM Service Connection version in “Minimum CLIM DVD Versions for RVUs by CLIM Type” (page 10).

Related Information


This reference replaces Support Note S09039B T0853 CLIM DVD & RVU COMPATIBILITY.

For SPR installation instructions, see the product softdocs.

For CLIM and CLIM-attached storage firmware, see the *NonStop Firmware Matrices* document.

For more information on OSM actions, see OSM online help.

NOTE: NTL has moved to <http://www.hp.com/go/nonstop-docs> (external view) and <http://www.hp.com/go/nonstop-support-docs> (internal view.)

To get an alphabetical list of manuals in SAW, click the  icon next to the desired documentation collection, click **Technical Manuals** in the menu on the left, then click **Title** to sort a table of manuals by title.

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1 CLIM Software Compatibility Overview

RVU Upgrade Consideration: When upgrading from one RVU to another, all CLIMs must be updated to the minimum supported CLIM DVD version as indicated in this document. If a downgrade to a prior RVU is required, then a downgrade to a prior CLIM DVD version might be required.

Downgrade to a prior CLIM DVD version requires a reimage of the CLIM. This process can take a substantial time (one hour for two CLIMs) and should be accounted for in any maintenance window. The procedure to downgrade to a prior CLIM DVD version is documented in the J06.xx or H06.nn Software Installation and Upgrade Guide for the RVU.

It is HP's intention that any future CLIM DVD version be compatible with the RVU with which it was released and all prior RVUs back to and including J06.06/H06.17. When a system is at one of those RVUs, a reimage of the CLIM will not be required to downgrade to a prior RVU unless the reason for the downgrade is a problem with the CLIM DVD software.

Any deviation in the backward compatibility of all future CLIM DVD versions to preceding RVUs (J06.06/H06.17 or later) will be announced with an update to this document.

A new CLIM that is to be added to an existing configuration (replacement or addition) might be shipped with a CLIM DVD version that is not compatible with the RVU running on your NonStop system. If that occurs, that CLIM must be updated or downgraded to a compatible CLIM version. The Software Installation and Upgrade Guide for the RVU describes how to determine the version of a CLIM. Normally, this update, if required, is done by your service representative.

NOTE: HP considers it a best practice to have all CLIMs on a system running the same CLIM DVD version.

CLIM software installation does not update the CLIM firmware. CLIM firmware must be verified through the OSM Service Connection and can be updated either through the OSM Service Connection or by using the Down System CLIM Firmware Update Tool in conjunction with the OSM Service Connection. The Down System CLIM Firmware Update Tool method provides a more efficient update process for updating CLIM firmware that can be used when you are planning to bring the NonStop system down. The CLIM Down System CLIM Firmware Update Tool is installed on NonStop system consoles as part of the OSM Console Tools product T0634 G06 ABB and later.

For more information about:	See...
CLIM firmware versions and compatibility	<i>NonStop Firmware Matrices</i>
Performing CLIM firmware updates	<i>NonStop Cluster I/O Protocols (CIP) Configuration and Management Manual</i> and the online help available from within the OSM Service Connection and the Down System CLIM Firmware Update Tool
Installing or accessing the Down System CLIM Firmware Update Tool	<i>NonStop System Console Installer Guide</i> . If already installed on the NonStop system console, it is launched from the Windows Start menu by selecting All Programs > HP OSM > Down System Firmware Update Tool.

2 Recommended (and Shipped) CLIM DVD Versions

This chapter lists the recommended CLIM DVD version for each RVU.

Table 1 CLIM DVD Versions

RVU	Recommended DVD Version	Recommended DVD Product ID
J06.04	T0853H01 AAA	Q9800
J06.05/H06.16	T0853H01 AAB	Q9800-U1
J06.06/H06.17	T0853H01 AAH ¹	Q9800-U2
J06.07/H06.18	T0853H01 AAL	Q9800U3 (for both J and H)
J06.08/H06.19	T0853H01 AAU	Q9800V4/ H9800V4
J06.09/H06.20	T0853H01 AAW	Q9800V5/ H9800V5
J06.10/H06.21	T0853H01 ABA	Q9800V6/ H9800V6
J06.11/H06.22	T0853H01 ABH	Q9800V7/ H9800V7
J06.12/H06.23	T0853H01 ABK	Q9800V8/ H9800V8
J06.13/H06.24	T0853H01 ABT	Q9800V9/ H9800V9
J06.14/H06.25	T0853H01 ABT	Q9800V9/ H9800V9
J06.15/H06.26	T0853H01 ACF	Q9800V11/ H9800V11
J06.16/H06.27	T0853H01 ACK	Q9800V12/ H9800V12
J06.17/H06.28	T0853H01 ACP	Q9800V13/ H9800V13
J06.18/H06.29	T0853H01 ACU	Q9800V14 H9800V14
L15.02	T0853L02 BAB	BE121AS

¹ Requires iLO firmware level 1.77

3 Minimum CLIM DVD Versions for RVUs by CLIM Type

This chapter lists the minimum CLIM DVD version for each RVU by CLIM type. A CLIM software level can be higher than the minimum CLIM software level for the RVU but it cannot be lower than the minimum CLIM software level for the RVU.

NOTE: A CLIM configured with T0853H01 ^ACP or later can be restored from a pre-T0853H01 ^ACP backup. However, a CLIM configured with a pre-T0853H01 ^ACP DVD version can only be restored with a backup of the same version. CLIMRSTR exits with errors if an incompatible backup file is specified.

Table 2 DL385 G2/G5 CLIM Minimum CLIM DVD Versions

RVU	Minimum DVD Version	Minimum DVD Product ID
J06.04	T0853H01 AAA	Q9800
J06.05/H06.16	T0853H01 AAB	Q9800-U1
J06.06/H06.17	T0853H01 AAH ¹	Q9800-U2
J06.07/H06.18	T0853H01 AAL	Q9800U3 (for both J and H)
J06.08/H06.19	T0853H01 AAU	Q9800V4/ H9800V4
J06.09/H06.20	T0853H01 AAW	Q9800V5/ H9800V5
J06.10/H06.21	T0853H01 ABA	Q9800V6/ H9800V6
J06.11/H06.22	T0853H01 ABH	Q9800V7/ H9800V7
J06.12/H06.23	T0853H01 AAU	Q9800V4/ H9800V4
J06.13/H06.24	T0853H01 AAU	Q9800V4/ H9800V4
J06.14/H06.25	T0853H01 AAU	Q9800V4/ H9800V4
J06.15/H06.26	T0853H01 AAU	Q9800V4/ H9800V4
J06.16/H06.27	T0853H01 AAU	Q9800V4/ H9800V4
J06.17/H06.28	T0853H01 AAU	Q9800V4/ H9800V4
J06.18/H06.29	T0853H01 AAU	Q9800V4 H9800V4

¹ Requires iLO firmware level 1.77

Table 3 DL380 G6 CLIM Minimum CLIM DVD Versions

RVU	Minimum DVD Version	Minimum DVD Product ID
J06.04	Not supported	Not supported
J06.05/H06.16	Not supported	Not supported

Table 3 DL380 G6 CLIM Minimum CLIM DVD Versions *(continued)*

RVU	Minimum DVD Version	Minimum DVD Product ID
J06.06/H06.17	T0853H01 ABA	Q9800V6/ H9800V6
J06.07/H06.18	T0853H01 ABA	Q9800V6/ H9800V6
J06.08/H06.19	T0853H01 ABA	Q9800V6/ H9800V6
J06.09/H06.20	T0853H01 ABA	Q9800V6/ H9800V6
J06.10/H06.21	T0853H01 ABA	Q9800V6/ H9800V6
J06.11/H06.22	T0853H01 ABA	Q9800V6/ H9800V7
J06.12/H06.23	T0853H01 ABA	Q9800V6/ H9800V6
J06.13/H06.24	T0853H01 ABA	Q9800V6/ H9800V6
J06.14/H06.25	T0853H01 ABA	Q9800V6/ H9800V6
J06.15/H06.26	T0853H01 ABA	Q9800V6/ H9800V6
J06.16/H06.27	T0853H01 ABA	Q9800V6/ H9800V6
J06.17/H06.28	T0853H01 ABA	Q9800V6/ H9800V6
J06.18/H06.29	T0853H01 ABA	Q9800V6 H9800V6

Table 4 DL380p Gen8 CLIM Minimum CLIM DVD Versions (BladeSystem)

RVU	Minimum DVD Version	Minimum DVD Product ID
J06.04	Not supported	Not supported
J06.05	Not supported	Not supported
J06.06	T0853H01 ACF	Q9800V11
J06.07	T0853H01 ACF	Q9800V11
J06.08	T0853H01 ACF	Q9800V11
J06.09	T0853H01 ACF	Q9800V11
J06.10	T0853H01 ACF	Q9800V11
J06.11	T0853H01 ACF	Q9800V11
J06.12	T0853H01 ACF	Q9800V11
J06.13	T0853H01 ACF	Q9800V11
J06.14	T0853H01 ACF	Q9800V11

Table 4 DL380p Gen8 CLIM Minimum CLIM DVD Versions (BladeSystem) (continued)

RVU	Minimum DVD Version	Minimum DVD Product ID
J06.15	T0853H01 ACF	Q9800V11
J06.16	T0853H01 ACF	Q9800V11
J06.17	T0853H01 ACF	Q9800V11
J06.18	T0853H01 ACF	Q9800V11

Table 5 DL380p Gen8 CLIM Minimum CLIM DVD Versions (NonStopX)

RVU	Minimum DVD Version	Minimum DVD Product ID
L15.02	T0853L02 BAB	BE121AS

NOTE: The Gen8 CLIM is not supported on H-series systems.

Table 6 IB CLIM Minimum CLIM DVD Versions

RVU	Minimum DVD Version	Minimum DVD Product ID	IB CLIM
J06.04	Not supported	Not supported	Not supported
J06.05/H06.16	Not supported	Not supported	Not supported
J06.06/H06.17	Not supported	Not supported	Not supported
J06.07/H06.18	Not supported	Not supported	Not supported
J06.08/H06.19	Not supported	Not supported	Not supported
J06.09/H06.20	Not supported	Not supported	Not supported
J06.10/H06.21	Not supported	Not supported	Not supported
J06.11/H06.22	Not supported	Not supported	Not supported
J06.12/H06.23	T0853H01 ABK	Q9800V8/ H9800V8	Supported
J06.13/H06.24	T0853H01 ABK	Q9800V8/ H9800V8	Supported
J06.14/H06.25	T0853H01 ABK	Q9800V8/ H9800V8	Supported
J06.15/H06.26	T0853H01 ABK	Q9800V8/ H9800V8	Supported
J06.16/H06.27	T0853H01 ABK	Q9800V8/ H9800V8	Supported
J06.17/H06.28	T0853H01 ABK	Q9800V8/ H9800V8	Supported
J06.18/H06.29	T0853H01 ABK	Q9800V8 H9800V8	Supported

4 CLIM Software Compatibility Matrix

Table 7: CLIM Software Compatibility Matrix J06.04 – J06.15/H06.26 and Table 8: CLIM Software Compatibility Matrix J06.16/H06.27 – J06.18/H06.29 (page 15) in this chapter provides the compatibility of CLIM DVDs and NonStop RVUs for current versions as well as future versions of each RVU. Use the matrix as a guideline for RVU upgrade and downgrade, for adding CLIMs to an existing configuration, and for replacing CLIMs. In some cases, downgrade to a previous RVU requires a downgrade to a previous CLIM DVD, which can take an extended period of time. (Downgrade to a previous RVU means loading the NonStop system on an earlier RVU. Downgrade to a previous CLIM DVD means reverting the CLIM software to an earlier version. Downgrading a CLIM requires reimaging the CLIM.)

This table is ordered by SPRs and superseding TCFs. For example, AAW was released at J06.09/H06.20, AAY was a superseding TCF for AAW so it follows AAW in the table. The last TCF in the table supersedes the SPR associated with the RVU and all intermediate TCFs.

Table 7 CLIM Software Compatibility Matrix J06.04 – J06.15/H06.26

T0853...	J06.04	J06.05/ H06.16	J06.06/ H06.17	J06.07/ H06.18	J06.08/ H06.19	J06.09/ H06.20	J06.10/ H06.21	J06.11/ H06.22	J06.12/ H06.23	J06.13/ H06.24	J06.14/ H06.25	J06.15/ H06.26
AAA	R	–	–	–	–	–	–	–	–	–	–	–
AAB	–	R	–	–	–	–	–	–	–	–	–	–
AAD	–	T	–	–	–	–	–	–	–	–	–	–
AAE	–	T	–	–	–	–	–	–	–	–	–	–
AAF	–	T	–	–	–	–	–	–	–	–	–	–
AAG	–	T	–	–	–	–	–	–	–	–	–	–
AAQ	–	T	–	–	–	–	–	–	–	–	–	–
AAT	–	T	–	–	–	–	–	–	–	–	–	–
AAH	–	–	R	–	–	–	–	–	–	–	–	–
AAL	–	–	C	R	–	–	–	–	–	–	–	–
AAM	–	–	C	T	–	–	–	–	–	–	–	–
AAU	–	–	C	C	R	1	1	1	1	1	1	1
AAV	–	–	C	C	T	1	1	1	1	1	1	1
AAW	–	–	C	C	C	R	1	1	1	1	1	1
AAY	–	–	C	C	C	T	1	1	1	1	1	1
ABB	–	–	C	C	C	T	1	1	1	1	1	1
ABC	–	–	C	C	C	T	1	1	1	1	1	1
ABD	–	–	C	C	C	T	1	1	1	1	1	1
ABA	–	–	C	C	C	C	R	2	2	2	2	2
ABE	–	–	C	C	C	C	T	2	2	2	2	2
ABF	–	–	C	C	C	C	T	2	2	2	2	2
ABG	–	–	C	C	C	C	T	2	2	2	2	2
ABI	–	–	C	C	C	C	T	2	2	2	2	2
ABH	–	–	C	C	C	C	C	R	2	2	2	2

Table 7 CLIM Software Compatibility Matrix J06.04 – J06.15/H06.26 *(continued)*

T0853...	J06.04	J06.05/ H06.16	J06.06/ H06.17	J06.07/ H06.18	J06.08/ H06.19	J06.09/ H06.20	J06.10/ H06.21	J06.11/ H06.22	J06.12/ H06.23	J06.13/ H06.24	J06.14/ H06.25	J06.15/ H06.26
ABL	–	–	C	C	C	C	C	T	2	2	2	2
ABO	–	–	C	C	C	C	C	T	2	2	2	2
ABP	–	–	C	C	C	C	C	T	2	2	2	2
ABQ	–	–	C	C	C	C	C	T	2	2	2	2
ABR	–	–	C	C	C	C	C	T	2	2	2	2
ABS	–	–	C	C	C	C	C	T	2	2	2	2
ABK	–	–	C	C	C	C	C	C	R	2	2	2
ABU	–	–	C	C	C	C	C	C	T	2	2	2
ABT	–	–	C	C	C	C	C	C	C	R	R	2
ABV	–	–	C	C	C	C	C	C	C	T	T	2
ABX	–	–	C	C	C	C	C	C	C	T	T	2
ACA	–	–	C	C	C	C	C	C	C	C	T	2
ACB	–	–	C	C	C	C	C	C	C	C	T	2
ACF	–	–	C	C	C	C	C	C	C	C	C	R
ACG	C	C	C	C	C	C	C	C	C	C	C	T
ACK	–	–	C	C	C	C	C	C	C	C	C	C
ACL	C	C	C	C	C	C	C	C	C	C	C	C
ACM	C	C	C	C	C	C	C	C	C	C	C	C
ACN	C	C	C	C	C	C	C	C	C	C	C	C
ACO	C	C	C	C	C	C	C	C	C	C	C	C
ACP	C	C	C	C	C	C	C	C	C	C	C	C
ACQ	C	C	C	C	C	C	C	C	C	C	C	C
ACU	C	C	C	C	C	C	C	C	C	C	C	C

R : Released with RVU

C : Compatible

T: TCF released for RVU

– : Not Compatible

1: Compatible with G2/G5 CLIM*

2: Compatible with G2/G5 and G6 CLIM*

3: Compatible with G2/G5, G6, and Gen8 CLIM*

NOTE: * Always check softdocs for other considerations; for example support for optional features.

NOTE: A CLIM configured with T0853H01^ACB or later cannot be restored with a pre-T0853H01^ACB backup. CLIMRSTR exits with errors if an incompatible backup file is specified.

Table 8 CLIM Software Compatibility Matrix J06.16/H06.27 – J06.18/H06.29

T0853...	J06.16/ H06.27	J06.17/ H06.28	J06.18/ H06.29	L15.02
AAA	–	–	–	–
AAB	–	–	–	–
AAD	–	–	–	–
AAE	–	–	–	–
AAF	–	–	–	–
AAG	–	–	–	–
AAQ	–	–	–	–
AAT	–	–	–	–
AAH	–	–	–	–
AAL	–	–	–	–
AAM	–	–	–	–
AAU	1	1	1	–
AAV	1	1	1	–
AAW	1	1	1	–
AAZ	1	1	1	–
ABB	1	1	1	–
ABC	1	1	1	–
ABD	1	1	1	–
ABA	2	2	2	–
ABE	2	2	2	–
ABF	2	2	2	–
ABG	2	2	2	–
ABI	2	2	2	–
ABH	2	2	2	–
ABL	2	2	2	–
ABO	2	2	2	–
ABP	2	2	2	–
ABQ	2	2	2	–
ABR	2	2	2	–
ABS	2	2	2	–
ABK	2	2	2	–
ABU	2	2	2	–
ABT	2	2	2	–
ABV	2	2	2	–
ABX	2	2	2	–
ACA	2	2	2	–

Table 8 CLIM Software Compatibility Matrix J06.16/H06.27 – J06.18/H06.29 *(continued)*

T0853...	J06.16/ H06.27	J06.17/ H06.28	J06.18/ H06.29	L15.02
ACB	2	2	2	–
ACF	3	3	3	–
ACG	3	3	3	–
ACK	R	3	3	–
ACL	T	3	3	–
ACM	T	3	3	–
ACN	T	3	3	–
ACO	T	3	3	–
ACP	C	R	3	–
ACQ	C	T	3	–
ACU	C	C	R	–
BAA	–	–	–	C

R : Released with RVU

C : Compatible

T: TCF released for RVU

– : Not Compatible

1: Compatible with G2/G5 CLIM*

2: Compatible with G2/G5 and G6 CLIM*

3: Compatible with G2/G5, G6, and Gen8 CLIM*

NOTE: * Always check softdocs for other considerations; for example support for optional features.

NOTE: A CLIM configured with T0853H01^ACB or later cannot be restored with a pre-T0853H01^ACB backup. CLIMRSTR exits with errors if an incompatible backup file is specified.

5 Other CLIM Software Compatibility

DL380 G6 CLIM Required Minimum SPRs

This section lists the required minimum SPRs for DL380 G6 CLIMs.

The minimum RVU base required for DL380 G6 CLIMS is J06.06/H06.17. A system that is running J06.10/H06.21 or above can support DL380 G6 CLIMs without any additional SPRs.

NOTE: G6 CLIMs are not supported on L15.02 or NonStopX systems.

NonStop SPR T-Number	Description	SPR Revision
T0633G07 ¹	OSM Low-Level Link	ABK
T0682H02	OSM Service Connection	ACI
T0841H01	MSA70, D2700 disk enclosures	AAC
T0842H01	CLIM SAS HBA	AAD
T0843H01	CLIM FC HBA	AAC
T0846H01	CLIM Smart Array Controller	AAA
T0848H01	CLIM BIOS and iLO	AAC
T0849H01	CLIM NIC	AAB
T0856H01	M8390-12CG ² , M8391CG, M8392CG SAS disk enclosures	AAC

¹ The OSM Low-Level Link is delivered on the NonStop Console DVD, not the SUT. The DVD for J06.10 or above contains a version of the software that will support DL380 G6 CLIMs.

²Gen8 CLIM supports the M8390-12CG only for migration.

DL380p Gen8 CLIM Required Minimum SPRs

This section lists the required minimum SPRs for DL380p H- and J-series Gen8 CLIMs.

The minimum RVU base required for DL380p Gen8 CLIMS is J06.10.

NOTE: Gen8 CLIMs are not supported on any H-series machine. Starting with J06.15/H06.26, there are two CLIM DVDs that contain the same SPRs, one for J-series and one for H-series. The H-series DVD provides defect repair for G2, G5, and G6 CLIMs.

NonStop SPR T-Number	Description	SPR Revision
T0633G07 ¹	OSM Low-Level Link	ABQ
T0682H02	OSM Service Connection	ADD
T0841H01	MSA70, D2700 disk enclosures	AAC
T0842H01	CLIM SAS HBA	AAE
T0843H01	CLIM FC HBA	AAC
T0846H01	CLIM Smart Array Controller	AAD
T0848H01	CLIM BIOS and iLO	AAG

NonStop SPR T-Number	Description	SPR Revision
T0849H01	CLIM NIC	AAF
T0856H01	M8390-12CG, M8391-CG, M8392-CG SAS disk enclosures	AAH
¹ The OSM Low-Level Link is delivered on the NonStop Console DVD, not the SUT. The DVD for J06.10 or above contains a version of the software that will support DL380 G6 CLIMs.		

SSOCLIM Script

All commands issued from a NonStop system to its CLIMs over SSH through the dedicated service LAN require the CLIM username and password. When a CLIM is installed, a TACL script, SSOCLIM, must be run on each CLIM to establish trust between the NonStop system and the CLIM. All communication from the NonStop system to the CLIM (for command invocation or file transfer) becomes seamless after running this script.

Depending on the RVU and version of T0682 you are running, SSOCLIM may need to be run by the SUPER.SUPER user:

RVU	T0682 Version	Must Run SSOCLIM As
J06.09, H06.20	T0682H02^ACC	SUPER.SUPER
J06.10, H06.21	T0682H02^ACI	SUPER.SUPER
All others	All others	SUPER group member

See the *NonStop CLuster I/O Module (CLIM) Installation and Configuration Guide* and the *NonStop CLuster I/O Module (CLIM) Installation and Configuration Guide (+L15.02)* for details about SSOCLIM.

Volume Level Encryption

The minimum CLIM NonStop volume level encryption version that works with the Enterprise Secure Key Manager (ESKM) 3.0 is T0867AAH J06.12/H06.23. Customers should update the CLIM software version before registering the CLIMs with the ESKM 3.0.

6 Third-Party Software Requirements

IB CLIM

The IB CLIMs are used as part of a Low Latency Solution. The Low Latency Solution architecture provides a high speed and low latency messaging system for stock exchange trading from the incoming trade server to the NonStop operating system. The solution utilizes the third-party Informatica software for messaging and order sequencing which must be installed separately.